

GP-302782

THERMAL SIMULATION  
FRICTION DEVICE COOLING CONTROL

ABSTRACT OF THE DISCLOSURE

A cooling system for cooling a friction device includes a flow control device which controls a flow of fluid through the friction device. A controller estimates a temperature state of the friction device and calculates a flow  
5 command based on the temperature state. The controller operates the flow control device based on the flow command. The temperature state is one of a temperature of the friction device and a thermal energy of the friction device.